



Sustainable Management of Available Resources and Technology (SMART) Cleanup



**Mr. Samuel Pierre – (703) 601-1550
Headquarters, Department of the Army
OACSIM, Installations Service Directorate
Environmental Division
June 2010**

Report Documentation Page				Form Approved OMB No. 0704-0188	
Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.					
1. REPORT DATE JUN 2010		2. REPORT TYPE		3. DATES COVERED 00-00-2010 to 00-00-2010	
4. TITLE AND SUBTITLE Sustainable Management of Available Resources and Technology (SMART) Cleanup				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Army Ofc of the Assistant Chief of Staff for Installation Management, Installations Service Directorate, 600 Army Pentagon, Washington, DC, 20310-0600				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribution unlimited					
13. SUPPLEMENTARY NOTES Presented at the NDIA Environment, Energy Security & Sustainability (E2S2) Symposium & Exhibition held 14-17 June 2010 in Denver, CO.					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT Same as Report (SAR)	18. NUMBER OF PAGES 24	19a. NAME OF RESPONSIBLE PERSON
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified			



Agenda

- SMART Cleanup
 - Introduction
 - Contributing Factors
 - Regulatory Drivers
- Benefits and Applicability of SMART Cleanup
- Upcoming Activities



SMART Cleanup

- SMART Cleanup is an initiative to place a higher priority on evaluating long-term future land use considerations during the remediation process.
 - Includes consideration of an installation's Master Plan when formulating a site remedial strategy.
 - Allows for the efficient use of available funding.
 - Increases the flexibility of future Army land use and decreases overall long-term redevelopment costs.



Why SMART Cleanup?

- Master planning operations are under continued pressure to utilize an installation's real property resources as efficiently as possible.
- Contributing Factors:
 - BRAC
 - Support of up-tempo activities
 - Neighboring community encroachment



Additional Planning Pressures

- Environmentally contaminated areas located on an installation further limit development opportunity.
 - Lower cost and shorter remedial timeframe have historically led to remediation to commercial/industrial standards.
 - Implementation of Land Use Controls (LUCs) has left residual contamination in place.



Regulatory Drivers

- **AR 210-20** - Real Property Master Planning for Army Installations
 - Garrison commander's responsibility to create a blueprint and vision that allows an installation to respond to future Army missions and community aspirations, while providing and maintaining the capability to train, protect, sustain, and support today's force.
 - Establish installations as valued neighbors and trusted partners with surrounding communities.
 - Installations must be recognized as providing examples of excellent environmental stewardship.
 - The garrison commander's instrument for installation real property management, is recorded in the installation's real property master plan (RPMP).
 - RPMP covers a 20-year planning horizon, is adjusted semi-annually, and reviewed and updated at least every 5 years.



Regulatory Drivers (cont)

- **AR 200-1 - Environmental Protection and Enhancement**
 - Addresses environmental responsibilities for all Army organizations and implements Federal, State, and local laws and DoD policies for preserving, protecting, conserving, and restoring the quality of the environment.
 - Imparts authority to the DASA (ESOH) to provide overall policy, advocacy, program direction, and oversight across installations, logistics, acquisition, and operations.
 - Governs the majority of activities that are completed by installation-level environmental personnel on a daily basis.
 - Stipulates that it is a garrison commander's responsibility to ensure that an installation's master plan incorporates environmental considerations.



Issues with Regulatory Implementation

- AR 210-20 and AR 200-1 indicate that both planning and environmental tasks ultimately lie at installation level.
 - Neither regulation stipulates exactly how personnel operating within the planning and environmental departments are to coordinate their activities.
 - Regulations do not specifically stipulate who determines what a reasonable reuse is for a given site.



SMART Cleanup Applications and Results

- SMART Cleanup will:
 - Develop a decision framework for coordinating long-term installation master planning efforts with environmental cleanup decisions.
 - Highlight opportunities to encourage early discussions.
 - Emphasize opportunities where investments of additional funding would yield long-term benefits
 - Facilitate mutually beneficial communication and decision-making between environmental and planning personnel.
 - Outline continuous opportunities to revise decisions based on changing installation needs.
- Better coordination between environmental and master planning communities could result in more efficient cleanup decisions, saving both time and money.



SMART Cleanup Applicability

- Applied to both new and existing sites on enduring installations.
- Sites presently undergoing remediation or long-term monitoring can be evaluated for additional remedial activities that would:
 - Reduce the overall duration of environmental remediation at a site;
 - Yield a cost savings; and/or
 - Increase in value to the Army through increased property reuse.

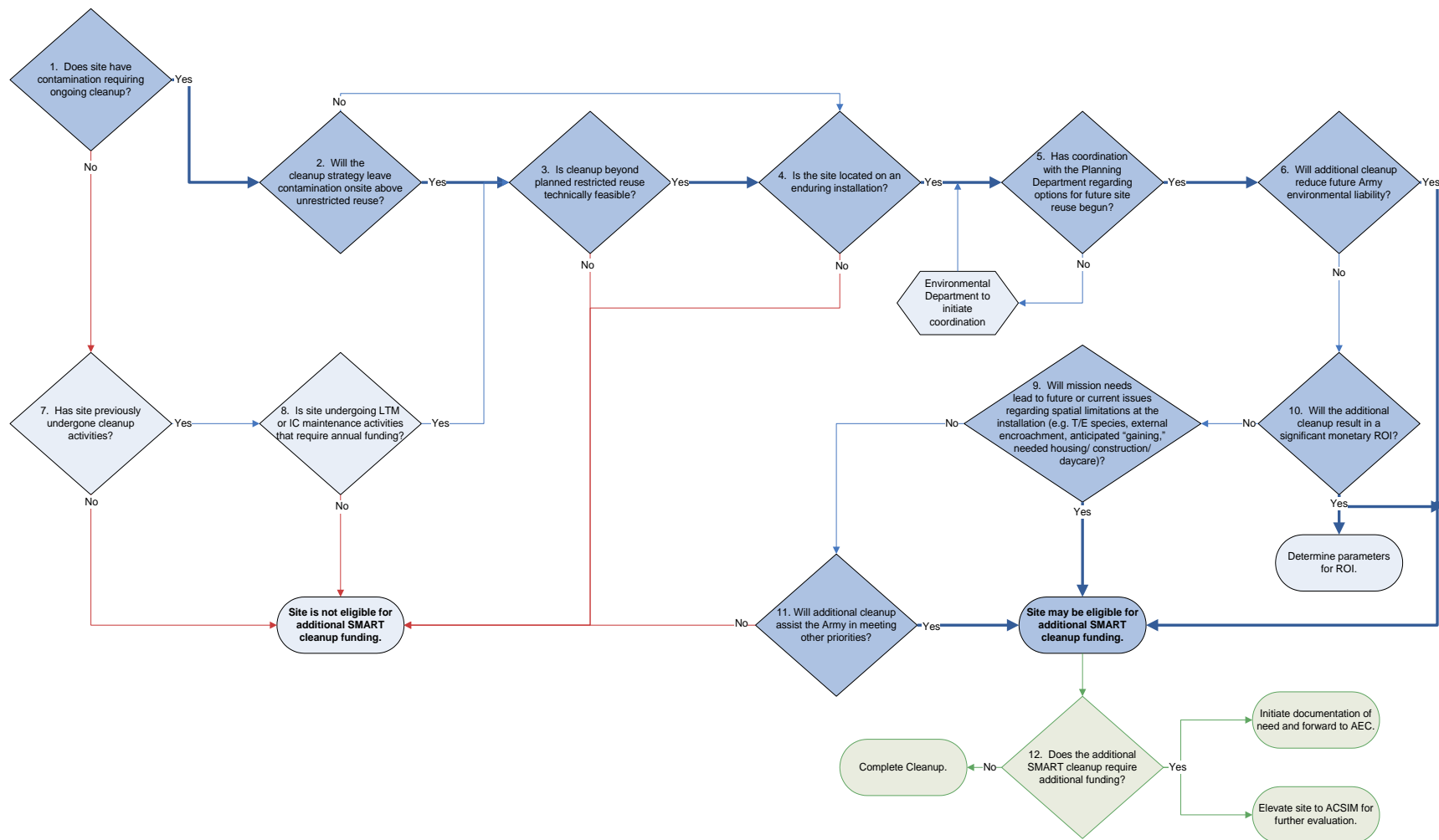


Determination of Site Applicability

- Multiple criteria will be considered when evaluating a site for additional cleanup activities.
- The following decision matrix (draft) was designed to streamline the process and graphically depict key concepts.
- The matrix is not final; the SMART Cleanup concept remains under development.

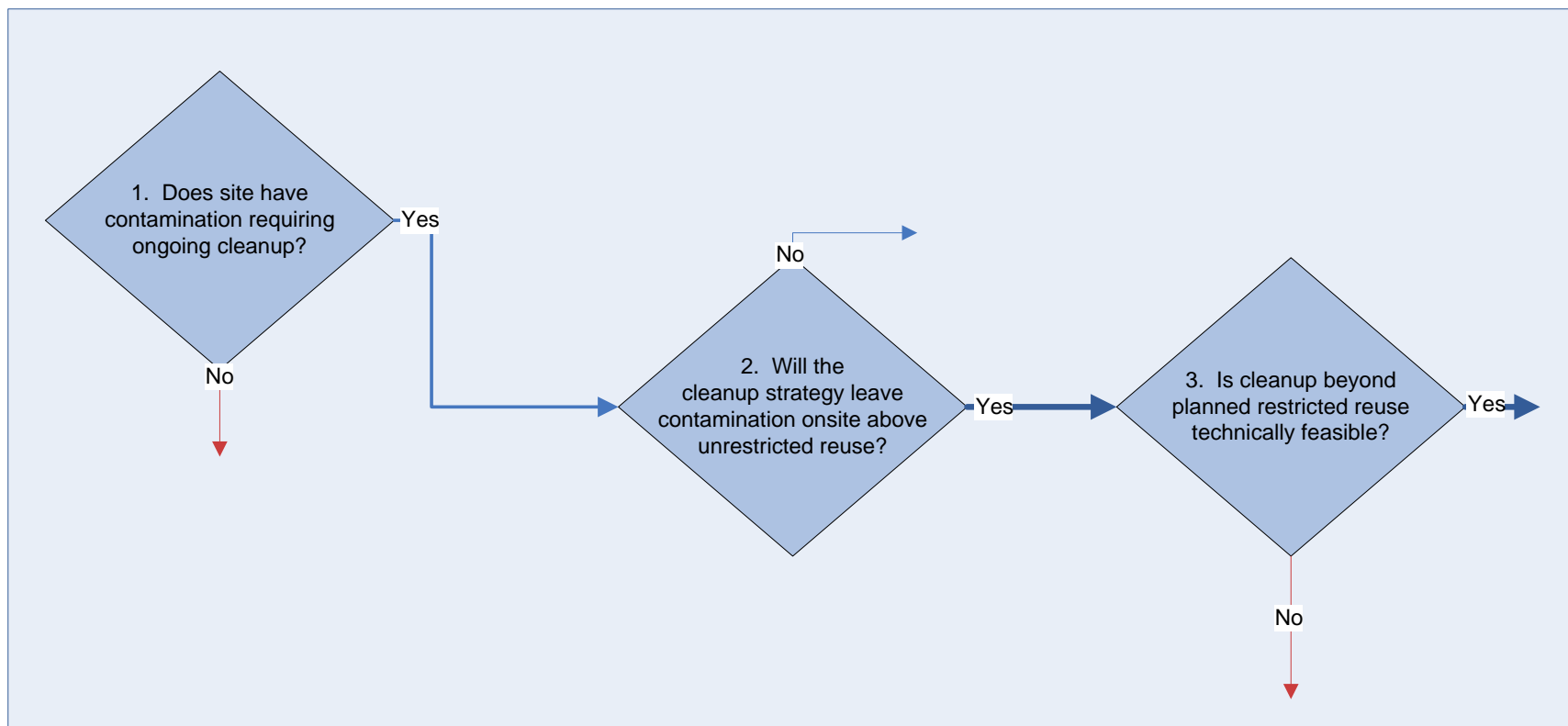
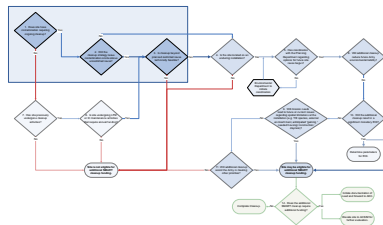


SMART Cleanup Decision Matrix



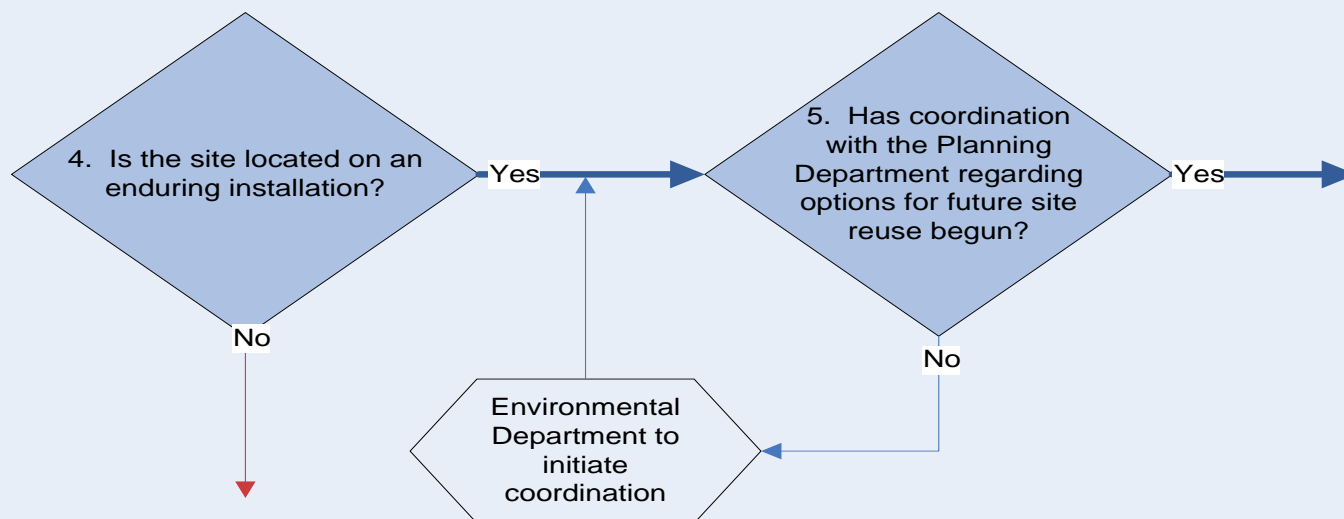
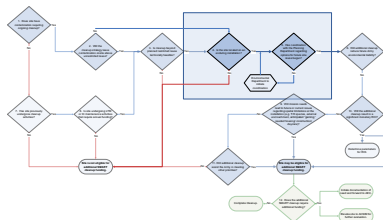


Initial Site Evaluation



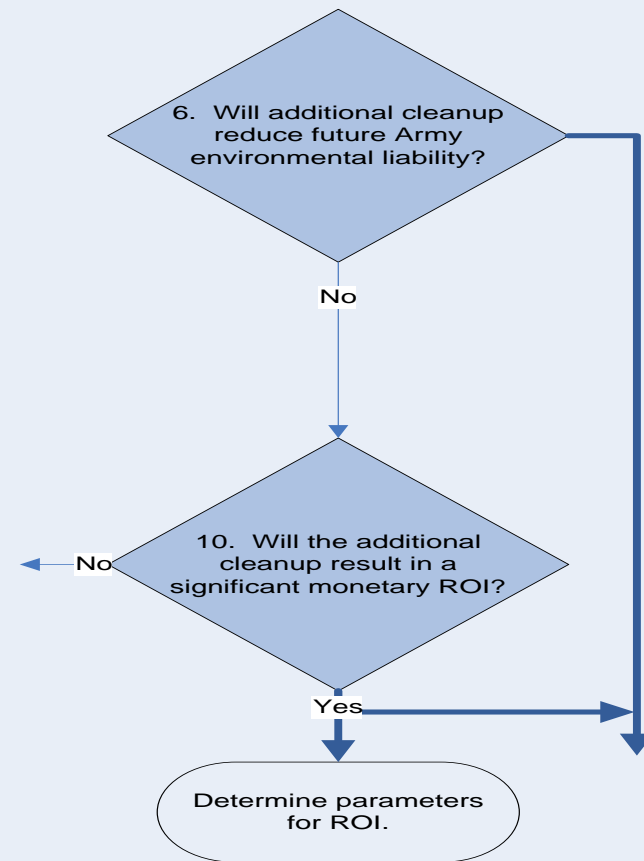
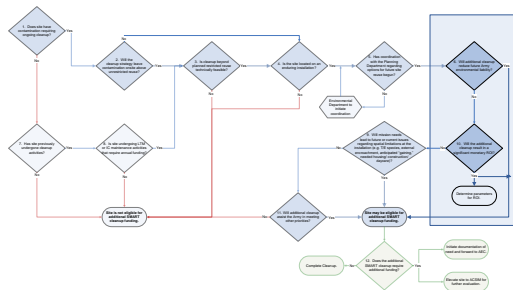


Installation Criteria



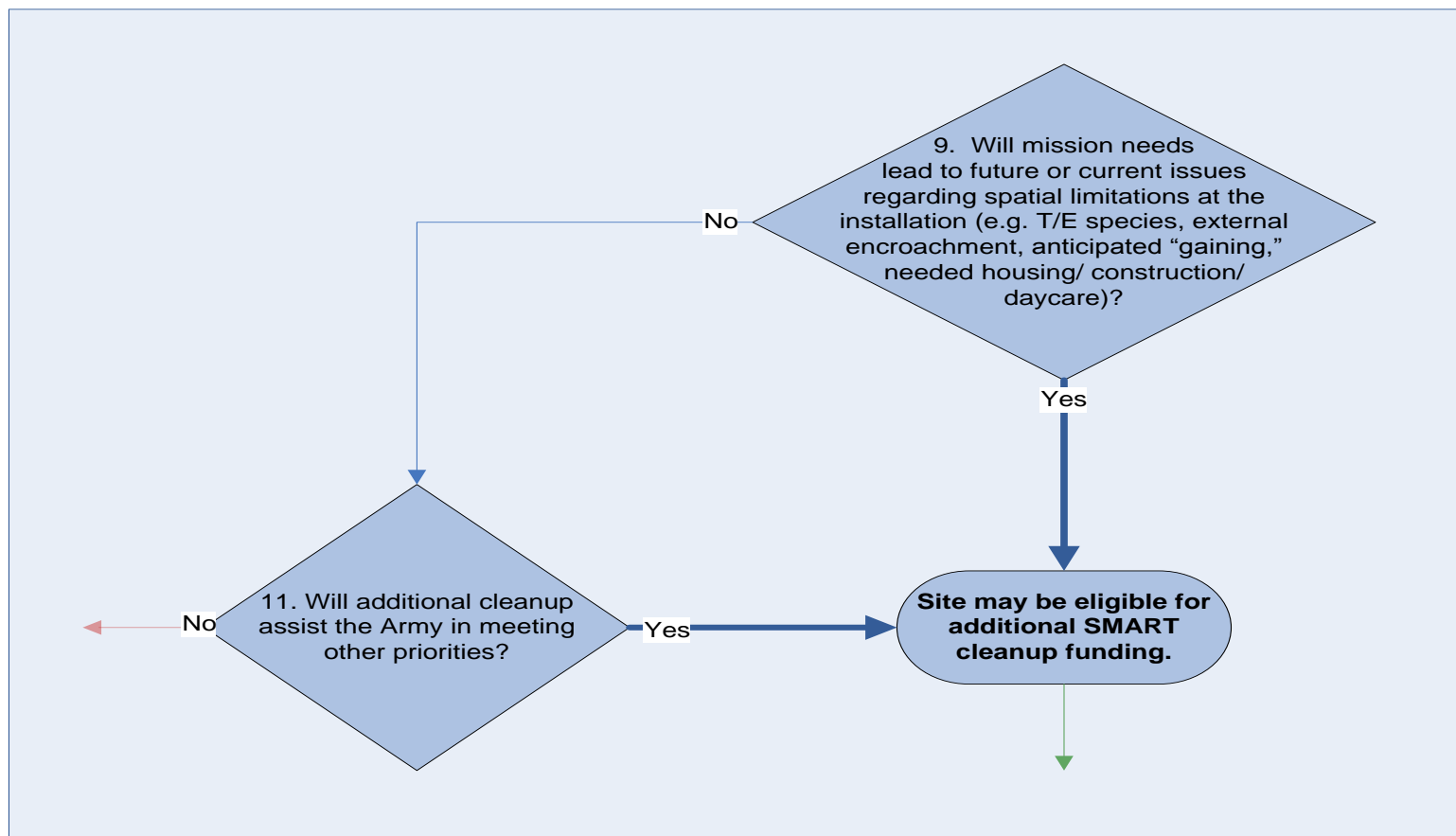
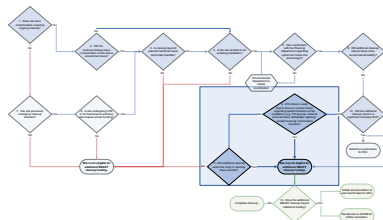


Liability and Monetary ROI Evaluation



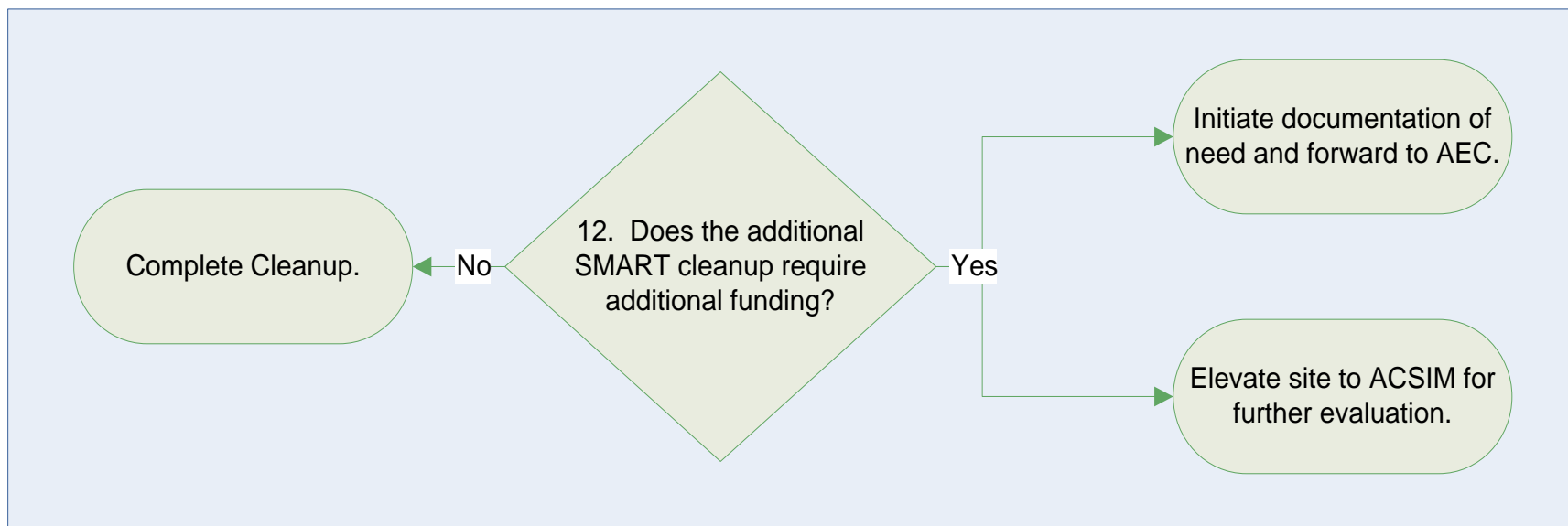
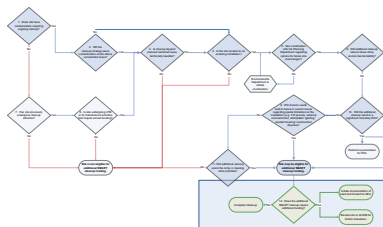


Evaluation of Spatial Needs or Other Army Priorities



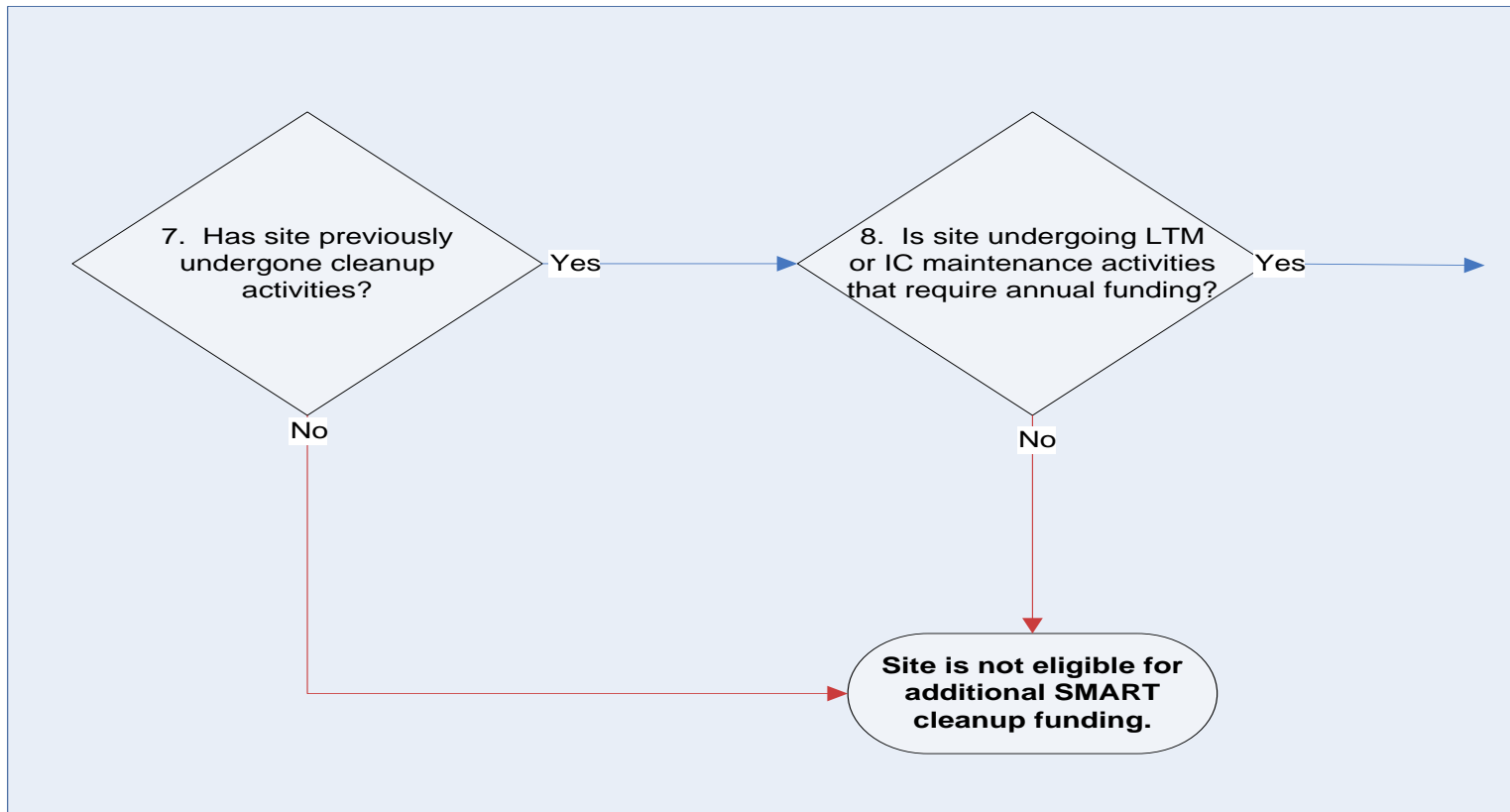
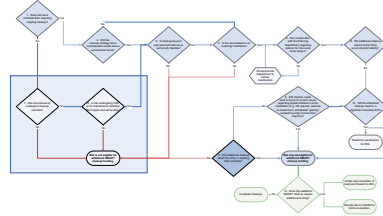


Activities After Eligibility





Evaluation of Sites Without Required Cleanup





SMART Cleanup Criteria

- The SMART Cleanup decision matrix is designed to be used on enduring installations only.
- SMART Cleanup is an evaluation of the best practicable future use of a site, and is not always tied to additional cost-to-complete funding.
- Only sites demonstrating a clear return on investment may be eligible for additional funding.
- Not all sites will benefit from additional environmental remediation or additional funding.



Outcomes of SMART Cleanup

- SMART Cleanup places increased emphasis on the long-term evaluation of anticipated reuse of contaminated sites early in the remedial process.
- SMART Cleanup evaluation may provide justification for additional remedial funding.
 - Contaminated sites with a potential future mission need may warrant allocation of additional resources.
 - Additional investment may prove to provide long-term cost and time savings to the Army.



Upcoming Activities

- The decision framework will be pilot tested first on a site level, then on an installation level.
- Results of the pilot tests will lead to new guidance development as needed.



Regulatory Involvement

- SMART Cleanup goals are not intended to be part of regulatory negotiation
- SMART Cleanup goals are not intended to be enforceable by regulators



Summary of SMART Cleanup

- SMART Cleanup is an initiative to place a higher priority on evaluating long-term future land use considerations and future Army liability during the remediation process.
- Benefits include:
 - Increased communication between stakeholders;
 - Reduction of the duration of environmental remediation at a site;
 - Cost savings (decreased Army environmental liability); and/or
 - Increase in value to the Army through increased property reuse.



QUESTIONS???

Mr. Samuel Pierre

Headquarters, Department of the Army OACSIM,
Installations Service Directorate,

Environmental Division

(703) 601-1550

samuel.pierre@us.army.mil